QC ABSTRACT

NAME OF WORK: Construction of Anganvadi Building at JP Colony in Ward No. 02

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Block(400*150*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
8	Block(400*100*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1

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9	PCC(M10)	Compressive Strength(7days and 28days)	2 sets /1-5 cum	5.44	4	4
10	PCC(M15)	Compressive Strength(7days and 28days)	2 sets /1-5 cum	1.76	4	4
11	RCC(M15)	Compressive Strength(7days and 28days)	1 Set	32.49	2	2
12	RCC(M25)	Compressive Strength(7days and 28days)	4 sets /31-50 cum	33.48	8	8
13	RCC(M25)	Compressive Strength(7days and 28days)	2 sets /1-5 cum	1.84	4	4
14	RCC(M25)	Compressive Strength(7days and 28days)	2 sets /1-5 cum	1.14	4	4
15	RCC(M25)	Compressive Strength(7days and 28days)	3 sets /6-15 cum	6.38	4	6
16	RCC(M25)	Compressive Strength(7days and 28days)	2 sets /1-5 cum	1.55	4	4
17	RCC(M25)	Compressive Strength(7days and 28days)	2 sets /1-5 cum	1.66	4	4
18	RCC(M25)	Compressive Strength(7days and 28days)	2 sets /1-5 cum	0.93	4	4
19	RCC(M25)	Compressive Strength(7days and 28days)	3 sets /6-15 cum	6.26	6	6
20	RCC(M25)	Compressive Strength(7days and 28days)	2 sets /1-5 cum	1.80	4	4
21	CERAMIC TILES	MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS	One Test		1	1
		MODULUS OF RUPTURE AND BREAKING STRENGTH	One Test		1	1
22	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
23	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2024-08-30-18** **Date: 08-04-24**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Anganvadi Building at JP Colony in Ward No. 02

Agency : Sri. Raghunatha B P, No.47, 2nd Main, Muneshwara Layout, Bangalore-560058

Customer's Reference : BBMP/EE/YNK D/EPMT-12/W O/30/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-04-24

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 269:2015 Ordinary Portland cement Specification ,
IS 4031 (Part 4,5):1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6

Date of test : 06-04-24

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	1.85	–
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	275 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

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Technical Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2024-08-30-18** **Date: 08-04-24**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Anganvadi Building at JP Colony in Ward No. 02

Agency : Sri. Raghunatha B P, No.47, 2nd Main, Muneshwara Layout, Bangalore-560058

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/30/2023-24

Source of Sample : Sample supplied by Agency

Sample condition : Satisfactory

Date of Receipt : 05-04-24

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 05-04-24

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	318	318	2.1	97.9	90-100
3	20 mm	7440	7758	51.7	48.3	30-70
4	10 mm	5140	12898	86.0	14.0	10-35
5	4.75 mm	1720	14618	97.5	2.5	0-5
6	Pan	382	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2024-08-30-18**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. **Date: 08-04-24**

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Anganvadi Building at JP Colony in Ward No. 02

Agency : Sri. Raghunatha B P, No.47, 2nd Main, Muneshwara Layout, Bangalore-560058

Customer Reference : BBMP/EE/YNK.D/EPMT-12/W.O/30/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-04-24

Sample Type/ Size : 20mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 05-04-24

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2635	2880	57.6	42.4	25-55
4	4.75 mm	1780	4660	93.2	6.8	0-10
5	Pan	340	5000	100	0	–

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TEST REPORT OF FINE AGGREGATE

Format No: CP/TF/01

Lab ID : **CP-2024-08-30-18**

Date: 08-04-24

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Anganvadi Building at JP Colony in Ward No. 02

Agency : Sri. Raghunatha B P, No.47, 2nd Main, Muneshwara Layout, Bangalore-560058

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/30/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-04-24

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 05-04-24

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2024-08-30-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. **Date: 06-04-24**
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Anganvadi Building at JP Colony in Ward No. 02
Agency	:	Sri. Raghunatha B P, No.47, 2nd Main, Muneshwara Layout, Bangalore-560058
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/30/2023-24
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-04-24
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	05-04-24

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe550	8	0.391	615	754	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe550	10	0.616	630	774	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe550	12	0.888	646	770	20.0%	Satisfactory	Satisfactory
4	Sunvik	Fe550	16	1.581	674	776	19.0%	Satisfactory	Satisfactory
5	Sunvik	Fe550	20	2.476	686	795	19.0%	Satisfactory	Satisfactory
6	Sunvik	Fe550	25	3.472	699	714	18.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : **CP-2024-08-30-18**

Date: 13/08/2024

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Anganvadi Building at JP Colony in Ward No. 02

Agency : Sri. Raghunatha B P, No.47, 2nd Main, Muneshwara Layout, Bangalore-560058

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/30/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-07-24

Customer ID : Coping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/08/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Coping Concrete	M15	16/07/2024	13/08/2024	150.44 X 150.12 X 150.43	22583	8.724	394.9	17.5	17.4
2	Coping Concrete	M15	16/07/2024	13/08/2024	150.77 X 150.69 X 150.58	22721	8.635	397.2	17.5	
3	Coping Concrete	M15	16/07/2024	13/08/2024	150.05 X 150.70 X 150.74	22613	8.939	392.8	17.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : **CP-2024-08-30-18**

Date: 16/05/2024

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Anganvadi Building at JP Colony in Ward No. 02

Agency : Sri. Raghunatha B P, No.47, 2nd Main, Muneshwara Layout, Bangalore-560058

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/30/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-04-24

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M25	18/04/2024	16/05/2024	150.44 X 150.96 X 150.41	22710	8.668	657.6	29.0	28.8
2	Footing Concrete	M25	18/04/2024	16/05/2024	150.97 X 150.75 X 150.62	22760	8.243	654.3	28.8	
3	Footing Concrete	M25	18/04/2024	16/05/2024	150.79 X 150.65 X 150.64	22716	8.361	650.2	28.6	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/05/2024

Lab ID	:	**CP-2024-08-30-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Anganvadi Building at JP Colony in Ward No. 02
Agency	:	Sri. Raghunatha B P, No.47, 2nd Main, Muneshwara Layout, Bangalore-560058
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/30/2023-24
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-04-24
Customer ID	:	Pedestal Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Pedestal Concrete	M25	25/04/2024	23/05/2024	150.52 X 150.92 X 150.87	22717	8.238	647.2	28.5	
2	Pedestal Concrete	M25	25/04/2024	23/05/2024	150.47 X 150.72 X 150.61	22678	8.546	654.4	28.9	28.7
3	Pedestal Concrete	M25	25/04/2024	23/05/2024	150.32 X 150.75 X 150.19	22662	8.812	648.5	28.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 28/05/2024

Lab ID	:	**CP-2024-08-30-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Anganvadi Building at JP Colony in Ward No. 02
Agency	:	Sri. Raghunatha B P, No.47, 2nd Main, Muneshwara Layout, Bangalore-560058
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/30/2023-24
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-24
Customer ID	:	Column upto Plinth Beam Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column upto Plinth Beam Concrete	M25	30/04/2024	28/05/2024	150.03 X 150.52 X 150.08	22583	8.602	640.7	28.4	28.3
2	Column upto Plinth Beam Concrete	M25	30/04/2024	28/05/2024	150.92 X 150.82 X 150.26	22762	8.938	643.9	28.3	
3	Column upto Plinth Beam Concrete	M25	30/04/2024	28/05/2024	150.00 X 150.80 X 150.93	22621	8.834	638.9	28.2	

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : **CP-2024-08-30-18**

Date: 13/05/2024

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Anganvadi Building at JP Colony in Ward No. 02

Agency : Sri. Raghunatha B P, No.47, 2nd Main, Muneshwara Layout, Bangalore-560058

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/30/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-05-24

Customer ID : Plinth Beam Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam Concrete	M25	06/05/2024	13/05/2024	150.45 X 150.47 X 150.58	22637	8.789	398.8	17.6	17.9
2	Plinth Beam Concrete	M25	06/05/2024	13/05/2024	150.06 X 150.91 X 150.32	22646	8.349	409.2	18.1	
3	Plinth Beam Concrete	M25	06/05/2024	13/05/2024	150.97 X 150.79 X 150.27	22764	8.809	412.1	18.1	

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : **CP-2024-08-30-18**

Date: 23/05/2024

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Anganvadi Building at JP Colony in Ward No. 02

Agency : Sri. Raghunatha B P, No.47, 2nd Main, Muneshwara Layout, Bangalore-560058

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/30/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-05-24

Customer ID : Ground Floor Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Ground Floor Column Concrete	M25	16/05/2024	23/05/2024	150.12 X 150.06 X 150.33	22527	8.125	401.6	17.8	18.0
2	Ground Floor Column Concrete	M25	16/05/2024	23/05/2024	150.13 X 150.20 X 150.44	22549	8.160	406.1	18.0	
3	Ground Floor Column Concrete	M25	16/05/2024	23/05/2024	150.12 X 150.42 X 150.13	22581	8.875	409.4	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : **CP-2024-08-30-18** **Date: 30/05/2024**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Anganvadi Building at JP Colony in Ward No. 02

Agency : Sri. Raghunatha B P, No.47, 2nd Main, Muneshwara Layout, Bangalore-560058

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/30/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-05-24

Customer ID : G.F Lintel Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	G.F Lintel Concrete	M25	23/05/2024	30/05/2024	150.66 X 150.39 X 150.96	22657	8.394	410.8	18.1	18.3
2	G.F Lintel Concrete	M25	23/05/2024	30/05/2024	150.35 X 150.67 X 150.94	22652	8.983	416.4	18.4	
3	G.F Lintel Concrete	M25	23/05/2024	30/05/2024	150.36 X 150.03 X 150.72	22558	8.895	413.1	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : **CP-2024-08-30-18**

Date: 30/05/2024

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Anganvadi Building at JP Colony in Ward No. 02

Agency : Sri. Raghunatha B P, No.47, 2nd Main, Muneshwara Layout, Bangalore-560058

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/30/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-05-24

Customer ID : G.F Chejja Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/05/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	G.F Chejja Concrete	M25	23/05/2024	30/05/2024	150.09 X 150.59 X 150.81	22601	8.276	399.8	17.7	17.9
2	G.F Chejja Concrete	M25	23/05/2024	30/05/2024	150.50 X 150.69 X 150.96	22679	8.336	409.2	18.0	
3	G.F Chejja Concrete	M25	23/05/2024	30/05/2024	150.65 X 150.46 X 150.51	22668	8.482	410.4	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : **CP-2024-08-30-18** **Date: 05/07/2024**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Anganvadi Building at JP Colony in Ward No. 02

Agency : Sri. Raghunatha B P, No.47, 2nd Main, Muneshwara Layout, Bangalore-560058

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/30/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-06-24

Customer ID : G.F Roof Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/07/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	G.F Roof Slab Concrete	M25	07/06/2024	05/07/2024	150.80 X 150.17 X 150.26	22646	8.893	648.4	28.6	28.4
2	G.F Roof Slab Concrete	M25	07/06/2024	05/07/2024	150.77 X 150.16 X 150.12	22639	8.348	640.0	28.3	
3	G.F Roof Slab Concrete	M25	07/06/2024	05/07/2024	150.07 X 150.34 X 150.29	22562	8.305	640.7	28.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : **CP-2024-08-30-18**

Date: 05/07/2024

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Anganvadi Building at JP Colony in Ward No. 02

Agency : Sri. Raghunatha B P, No.47, 2nd Main, Muneshwara Layout, Bangalore-560058

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/30/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-06-24

Customer ID : G.F Staircase Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/07/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	G.F Staircase Concrete	M25	07/06/2024	05/07/2024	150.37 X 150.49 X 150.21	22630	8.696	641.3	28.3	28.4
2	G.F Staircase Concrete	M25	07/06/2024	05/07/2024	150.17 X 150.47 X 150.41	22596	8.756	638.9	28.3	
3	G.F Staircase Concrete	M25	07/06/2024	05/07/2024	150.52 X 150.35 X 150.59	22631	8.397	650.1	28.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : **CP-2024-08-30-18** **Date: 05/07/2024**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Anganvadi Building at JP Colony in Ward No. 02

Agency : Sri. Raghunatha B P, No.47, 2nd Main, Muneshwara Layout, Bangalore-560058

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/30/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-06-24

Customer ID : G.F Roof Beam Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/07/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	G.F Roof Beam Concrete	M25	07/06/2024	05/07/2024	150.27 X 150.80 X 150.68	22660	8.886	642.8	28.4	28.5
2	G.F Roof Beam Concrete	M25	07/06/2024	05/07/2024	150.51 X 150.86 X 150.54	22705	8.187	646.6	28.5	
3	G.F Roof Beam Concrete	M25	07/06/2024	05/07/2024	150.85 X 150.08 X 150.23	22640	8.555	646.1	28.5	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 01/07/2024

Lab ID		
Customer	:	**CP-2024-08-30-18**
Address	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	Construction of Anganvadi Building at JP Colony in Ward No. 02
Customer's Reference	:	Sri. Raghunatha B P, No.47, 2nd Main, Muneshwara Layout, Bangalore-560058
Source of Sample	:	BBMP/EE/YNK.D/EPMT-12/W.O/30/2023-24
Sample Condition	:	Sample supplied by Agency
Date of Receipt	:	Satisfactory
Customer ID	:	26-06-24
Sample Type /Size	:	F.F Lintel Concrete
Sample grade/Age	:	150X150X150 mm
Reference to BIS codes	:	M25 / 7 Days Compressive Strength
		IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/07/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	F.F Lintel Concrete	M25	24/06/2024	01/07/2024	150.49 X 150.26 X 150.70	22613	8.332	400.8	17.7	17.9
2	F.F Lintel Concrete	M25	24/06/2024	01/07/2024	150.37 X 150.15 X 150.81	22577	8.617	402.5	17.8	
3	F.F Lintel Concrete	M25	24/06/2024	01/07/2024	150.73 X 150.33 X 150.79	22659	8.237	410.3	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : **CP-2024-08-30-18**

Date: 16/07/2024

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Anganvadi Building at JP Colony in Ward No. 02

Agency : Sri. Raghunatha B P, No.47, 2nd Main, Muneshwara Layout, Bangalore-560058

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/30/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-07-24

Customer ID : F.F Roof Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/07/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	F.F Roof Slab Concrete	M25	09/07/2024	16/07/2024	150.54 X 150.15 X 150.24	22603	8.594	411.7	18.2	18.1
2	F.F Roof Slab Concrete	M25	09/07/2024	16/07/2024	150.85 X 150.87 X 150.06	22760	8.421	421.0	18.5	
3	F.F Roof Slab Concrete	M25	09/07/2024	16/07/2024	150.20 X 150.32 X 150.34	22577	8.355	399.0	17.7	

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Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : **CP-2024-08-30-18**

Date: 06/08/2024

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Anganvadi Building at JP Colony in Ward No. 02

Agency : Sri. Raghunatha B P, No.47, 2nd Main, Muneshwara Layout, Bangalore-560058

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/30/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-07-24

Customer ID : F.F Staircase Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/08/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	F.F Staircase Concrete	M25	09/07/2024	06/08/2024	150.78 X 150.55 X 150.34	22700	8.543	647.9	28.5	28.6
2	F.F Staircase Concrete	M25	09/07/2024	06/08/2024	150.92 X 150.61 X 150.91	22731	8.151	645.6	28.4	
3	F.F Staircase Concrete	M25	09/07/2024	06/08/2024	150.02 X 150.18 X 150.18	22530	8.292	652.8	29.0	

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Technical Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : **CP-2024-08-30-18**

Date: 16/07/2024

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Anganvadi Building at JP Colony in Ward No. 02

Agency : Sri. Raghunatha B P, No.47, 2nd Main, Muneshwara Layout, Bangalore-560058

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/30/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-07-24

Customer ID : F.F Roof Beam Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/07/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	F.F Roof Beam Concrete	M25	09/07/2024	16/07/2024	150.89 X 150.32 X 150.04	22681	8.959	404.9	17.9	18.0
2	F.F Roof Beam Concrete	M25	09/07/2024	16/07/2024	150.87 X 150.82 X 150.08	22755	8.777	416.1	18.3	
3	F.F Roof Beam Concrete	M25	09/07/2024	16/07/2024	150.74 X 150.85 X 150.73	22738	8.527	409.1	18.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 24/06/2024

Lab ID : **CP-2024-08-30-18**
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Construction of Anganvadi Building at JP Colony in Ward No. 02
Agency : Sri. Raghunatha B P, No.47, 2nd Main, Muneshwara Layout, Bangalore-560058
Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/30/2023-24
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 19-06-24
Customer ID : PCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M10 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 24/06/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	17/06/2024	24/06/2024	150.70 X 150.42 X 150.23	22668	8.693	169.4	7.5	7.4
2	PCC	M10	17/06/2024	24/06/2024	150.06 X 150.44 X 150.42	22575	8.117	159.5	7.1	
3	PCC	M10	17/06/2024	24/06/2024	150.32 X 150.85 X 150.04	22675	8.672	171.0	7.5	

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TEST REPORT FOR PLASTER SAND

Format No: CP/TF/2017

Lab ID : **CP-2024-08-30-18**

Date: 10-04-24

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Anganvadi Building at JP Colony in Ward No. 02

Agency : Sri. Raghunatha B P, No.47, 2nd Main, Muneshwara Layout, Bangalore-560058

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/30/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-04-24

Sample Type : Plaster Sand

Reference to BIS codes : IS: 383 : 2016 (Specification for Coarse and fine Aggregates)
IS1542:1992 (RA 2019) (Sand for Plaster - Specification)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 05-04-24

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	30	30	3	97	95-100
3	2.36 mm	10	40	4	96	95-100
4	1.18 mm	40	80	8	92	90-100
5	600 micron	60	140	14	86	80-100
6	300 micron	300	440	44	56	20-65
7	150 micron	500	940	94	6	0-15
8	Pan	60	1000	100	0	---

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2024-08-30-18

Date: 29/06/2024

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Anganvadi Building at JP Colony in Ward No. 02

Agency : Sri. Raghunatha B P, No.47, 2nd Main, Muneshwara Layout, Bangalore-560058

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/30/2023-24

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-06-24

Customer ID : Flooring Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/06/2024

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flooring Concrete	M15	22/06/2024	29/06/2024	150.88 X 150.31 X 150.75	22678	8.689	240.3	10.6	10.7
2	Flooring Concrete	M15	22/06/2024	29/06/2024	150.25 X 150.32 X 150.30	22585	8.693	244.9	10.8	
3	Flooring Concrete	M15	22/06/2024	29/06/2024	150.35 X 150.40 X 150.29	22613	8.928	240.0	10.6	

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TEST REPORT OF CERAMIC TILES

WATER ABSORPTION

Sl.no	Weight of oven dry sample	Saturated weight of sample	Water absorption by mass	Average value of water absorption
1	1406	1455	3.49	2.85
2	1424	1464	2.81	
3	1464	1498	2.32	
4	1408	1454	3.27	
5	1434	1468	2.37	

Sl.No

MODULUS OF RUPTURE AND BREAKING STRENGTH

Sl.No.	Dimension (mm)			Wet Transverse Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	300	300	6.04	14.8	14.7
2	300	300	6.06	14.2	
3	300	300	6.02	14.9	
4	300	300	6.06	14.8	
5	300	300	6.05	14.6	

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Date: 10-04-24

Lab ID	:	**CP-2024-08-30-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Anganvadi Building at JP Colony in Ward No. 02
Agency	:	Sri. Raghunatha B P, No.47, 2nd Main, Muneshwara Layout, Bangalore-560058
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/30/2023-24
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-04-24
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	05-04-24

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	399	202	203	16361	33.264	2033.1	2001.0	Not less than 1800Kg/m^3
2	398	199	201	15920	31.310	1966.8		
3	401	198	202	16038	32.128	2003.2		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Date: 10-04-24

Lab ID	:	**CP-2024-08-30-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Anganvadi Building at JP Colony in Ward No. 02
Agency	:	Sri. Raghunatha B P, No.47, 2nd Main, Muneshwara Layout, Bangalore-560058
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/30/2023-24
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-04-24
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	05-04-24

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	401	149	198	11830	23.644	1998.6	1907.8	Not less than 1800Kg/m^3
2	400	152	201	12221	23.191	1897.6		
3	399	151	198	11929	21.798	1827.3		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	24.91	23.69	4.89	4.25	Shall not be more than 10% by mass
2	25.57	24.48	4.28		
3	24.44	23.57	3.59		

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Lab ID : **CP-2024-08-30-18**

Date: 10-04-24

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	403	153	202	
2	399	153	199	
3	402	151	200	
4	403	150	199	
5	401	150	199	
6	403	151	202	
7	404	153	202	
8	403	151	201	
9	400	149	199	
10	400	153	202	
11	401	150	201	
12	404	149	199	
13	400	152	200	
14	403	152	201	
15	403	150	201	
16	401	153	201	
17	403	151	202	
18	404	151	202	
19	400	150	199	
20	404	152	200	
Average of 20	**402**	**151**	**201**	

Length : ± 5mm
Breadth : ± 3mm
Height : ± 3mm

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Lab ID : **CP-2024-08-30-18**

Date: 10-04-24

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	153	61137	263.0	4.3	4.3
2	399	153	61033	264.3	4.3	
3	402	151	60505	252.9	4.2	
4	403	150	60525	264.4	4.4	
5	401	150	60078	255.3	4.2	
6	403	151	60884	265.5	4.4	
7	404	153	61649	264.0	4.3	
8	403	151	61073	257.6	4.2	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Technical Manager

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Lab ID : **CP-2024-08-30-18**

DIMENSION ANALYSIS

Date: 10-04-24

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	102	201	
2	400	100	200	
3	401	101	203	
4	401	101	200	
5	401	103	203	
6	403	102	202	
7	400	103	200	
8	402	100	202	
9	401	102	201	
10	403	99	199	
11	402	100	201	Length : ± 5mm
12	404	102	200	Breadth : ± 3mm
13	403	101	203	Height : ± 3mm
14	400	101	201	
15	400	99	199	
16	401	100	202	
17	400	102	201	
18	404	101	202	
19	399	100	201	
20	399	103	203	
Average of 20	**401**	**101**	**201**	

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Lab ID : **CP-2024-08-30-18**

Date: 10-04-24

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	102	40773	179.2	4.4	4.3
2	400	100	39979	173.0	4.3	
3	401	101	40446	172.4	4.3	
4	401	101	40718	178.9	4.4	
5	401	103	41156	177.6	4.3	
6	403	102	41249	174.4	4.2	
7	400	103	41076	175.3	4.3	
8	402	100	40290	176.2	4.4	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

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